

Substitute for form 1449A/PTO

# SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet	1	of	3
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**Complete if Known**

<b>Application Number</b>	10/616,044
<b>Filing Date</b>	July 8, 2003
<b>First Named Inventor</b>	Yang, et al.
<b>Art Unit</b>	1753
<b>Examiner Name</b>	Nam X. Nguyen
<b>Attorney Docket Number</b>	AMAT/7669.P2/CMP/ECP/RKK

## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (# known)			
LV	A1	2004/0016647 A1	01/29/2004	Yang, et al.	
	A2	20040118694 A1	08-24-2004	Yang et al.	
	A3	2004/0016638 A1	01/29/2004	Yang, et al.	
	A4	5,656,386	08-12-1997	Scherer et al.	
	A5	6,423,642	07/23/02	Peace, et al.	
	A6	6,347,837	02/19/02	Watson, et al.	
	A7	5,785,833	07/28/98	Vaughan	
	A8	5,714,521	02/03/98	Kedem, et al.	
	A9	5,705,050	01/06/98	Sampson, et al.	
	A10	5,643,456	07/01/97	Smith, et al.	
	A11	5,516,418	05/14/96	Doss, et al.	
	A12	5,488,264	01/23/96	Ghandour	
	A13	5,482,680	01/09/96	Wilkinson, et al.	
	A14	5,435,903	07/25/95	Oda, et al.	
	A15	5,287,237	02/15/94	Kitada, et al.	
	A16	4,296,672	10/27/81	Inhofer	
	A17	6,080,291	08/27/00	Woodruff, et al.	
	A18	5,597,460	01/28/97	Reynolds	
	A19	6,740,221	05/25/2004	Cheung, et al.	
	A20	6,592,736	07/15/2003	Fulton, et al.	
LV	A21	6,589,874	07/08/2003	Andricacos, et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
LV	B1	11 186210	07/09/99	JP		
LV	B 2	11 162905	06/18/99	JP		
LV	B 3	10 242110	09/11/98	JP		
LV	B 4	10 177988	06/30/98	JP		
LV	B5	9 293658	11/11/97	JP		
LV	B6	7 14811	01/17/85	JP		
LV	B7	WO-98/27585	08/25/1998	IBM Corporation		

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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/616,044
		Filing Date	July 8, 2003
		First Named Inventor	Yang, et al.
		Art Unit	1753
		Examiner Name	Nam X. NGuyen
		Attorney Docket Number	AMAT/7669.P2/CMP/ECR/RKK
Sheet	3	of	3

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
LV	C1	Colombo; "Wafer Back Surface Film Removal," Central R&D, SGS-THOMSON Microelectronics, Agate Italy	No date
LV	C2	Pitney, "Ney Contact Manual" October 1974	
LV	C3	Semitool Product Catalog (on-line) October 27, 1998	
LV	C4	Singer, "Copper Has Enormous Benefits When Compared to Aluminum, but Its Implementation Requires Some Fundamental Changes in Process Technologies," Semiconductor International June 1998.	
LV	C5	Singer, "Wafer Processing," Semiconductor International June 1998.	
LV	C6	PCT International Search Report from International Application No. PCT/US 2004/022183, dated October 15, 2004.	

Examiner Signature		Date Considered	8/22/06
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**SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 2 of 3

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First Named Inventor	Yang, et al.
Art Unit	1753
Examiner Name	Nam X. Nguyen
Attorney Docket Number	AMAT/7669.P2/CMP/ECR/RKK

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)				
LV	A22	8,518,184		02/11/2003	Chambers, et al.	
	A23	8,270,635		08/07/2001	Woo	
	A24	6,090,260		07/18/2000	Inoue, et al.	
	A25	5,162,079		11/10/1992	Brown	
	A26	5,071,591		12/10/1991	Sheridan	
	A27	4,840,820		06/20/1989	Schultz, et al.	
	A28	4,832,851		12/30/1988	Broadbent, et al.	
	A29	4,469,564		09/04/1984	Okinaka, et al.	
	A30	2004/0200725		10/14/2004	Yahalom, et al.	
	A31	2004/0134775		07/15/2004	Yang, et al.	
	A32	2003/0159937		08/28/2003	Gandikota, et al.	
	A33	2003/0116445		06/26/2003	Sun, et al.	
	A34	2002/0063097		05/30/2002	Fukunaga, et al.	
	A35	2002/0033340		03/21/2002	Cheung, et al.	
	A36	2001/0052465		12/20/2001	Dordi, et al.	
	A37	2004-0074761		04-22-2004	Herchen et al.	
	A38	2004-0149573		08-05-2004	Herchen	
	A39	2003-0010640		01-16-2003	Kholodenko	
	A40	2004-0074762		04-22-2004	Keigler et al.	
	A41	2004-0206628		10-21-2004	Lubomirsky et al.	
A42	2004-0016637		01-29-2004	Yang et al.		
A43	2004-0217005		01-14-2004	Yang et al.		
A44	2004-0192066		01-30-2004	Lubomirsky et al.		

**FOREIGN PATENT DOCUMENTS**

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SignatureDate  
Considered

8/22/06

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